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| APPLICATION NO.  | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 09/653,202   | 08/31/2000  | Sang-Seok Lee        | 8733-291-00         | 4707             |
| 30827  | 7590        | 06/03/2005           | EXAMINER            |                  |
| MCKENNA LONG & ALDRIDGE LLP<br>1900 K STREET, NW<br>WASHINGTON, DC 20006 |             |                      | DUONG, THOI V       |                  |
|  |             |                      | ART UNIT            | PAPER NUMBER     |
|  |             |                      | 2871                |                  |

DATE MAILED: 06/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

|                              |                           |                  |  |
|------------------------------|---------------------------|------------------|--|
| <b>Office Action Summary</b> | Application No.           | Applicant(s)     |  |
|                              | 09/653,202                | LEE ET AL.       |  |
|                              | Examiner<br>Thoi V. Duong | Art Unit<br>2871 |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 14 March 2005.
- 2a) This action is FINAL.      2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-22 and 24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) 1-6,8-11,13-20 and 22 is/are allowed.
- 6) Claim(s) 7,12,21 and 24 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

|   |  |
|---|--|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)              |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>0205</u> . | 6) <input type="checkbox"/> Other: _____.  |

## **DETAILED ACTION**

1. This office action is in response to the Amendment filed March 14, 2005.  
  
Accordingly, claims 7, 9, 22 and 24 were amended, and claim 23 was cancelled.  
  
Currently, claims 1-22 and 24 are pending in this application.

### ***Claim Rejections - 35 USC § 112***

2. Claims 7, 12, 21 and 24 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claims 7, 12, 21 and 24 recite the limitation "wherein a distance between the conductive contact dot and the third vertex is about 0.1 to about 5 millimeters" which was not described in the specification filed on March 07, 2001. According to the specification in page 8, the distance "d" between the silver dot 10 and the third vertex "r3" is preferably 0.1 to 1 millimeters.

### ***Drawings***

3. The subject matter of this application admits of illustration by a drawing to facilitate understanding of the invention. Applicant is required to furnish a drawing under 37 CFR 1.81(c). No new matter may be introduced in the required drawing. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d).

***Allowable Subject Matter***

4. The indicated allowability of claims 7, 12, 21 and 24 is withdrawn in view of the rejection under 35 USC 112, first paragraph above.
5. Claims 1-6, 8-11, 13-20 and 22 are allowed.

The following is an examiner's statement of reasons for allowance:

Re claims 1, 5 and 6, none of the prior art of record suggests or discloses alone or in combination that a seal pattern has a plurality of triangular bent portions, each having an open side and a vertex opposite the open side, the vertex directed toward an inside a display area of the second substrate, wherein each triangular bent portion circumvents a conductive contact dot.

Re claims 9-11 and 22, none of the prior art of record suggests or discloses alone or in combination that a seal pattern has a plurality of semicircular bent portions, the semicircular bent portions being bent toward an inside of the second substrate wherein each semicircular bent portion circumvents a conductive contact dot,

wherein, re claims 10 and 22, each of the two ends of the semicircular bent portion has a radius of about 0.5 to about 2 mm; and

wherein, re claims 9 and 11, the semicircular portion has a radius of about 2.5 to about 10 millimeters.

The most relevant reference, USPN 6,636,192 B1 of Saitoh, fails to disclose or suggest a seal pattern having a plurality of triangular bent portions or a seal pattern having a plurality of semicircular bent portions with the above dimensions. The Saitoh's reference only discloses a sealing pattern having a plurality of bent portions without any

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specific dimensions. The bent portions of the seal pattern 200 are bent toward an inside of the second substrate, wherein each semicircular bent portion circumvents a conductive contact dot 56 as shown in Fig. 9B.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thoi V. Duong whose telephone number is (571) 272-2292. The examiner can normally be reached on Monday-Friday from 8:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim, can be reached at (571) 272-2293.

Thoi Duong



05/31/2005



DUNG T. NGUYEN  
PRIMARY EXAMINER